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(71) Applicant (for all designated States except US): CASTA-
NIA SOCIEDADE AGROFLORESTAL, S.A. [PT/PT];
Quinta de Vila Boa de Arufe, Apartado 206, 5301-903 Re-
bordainos, Bragança (PT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TRAQUETE SER-
RAZINA, Susana Maria [PT/PT]; Rua de Bica do Sapato,
n°48, 5°Dr°, 1100-094 Lisboa (PT). MATIAS FONSECA,
Sandra Cristina [PT/PT]; Parque Residencial do Almi-
rante, Lote 16, 3°D, ponte de Frielas, 2670 Loures (PT).
SOARES PAIS, Maria Salomé [PT/PT]; Edifício ICAT -
Campo Grande, P-1449-016 Lisboa (PT). BALDÉ, Aladje
[GW/PT]; Av. General Humberto Delgado, n° 5, 10° B,
2745 Monte Abraão, Queluz - Sintra (PT).

(74) Agent: RIBEIRO CARDOSO, Vítor, Luís; Rua Mor-
gado de Setúbal, 65, 3°Dr°, P-2910-672 Setúbal (PT).

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(54) Title: CASTANEA SATIVA MILL. GENES CODIFYING FOR ALLENE OXIDE CYCLASE, CYSTATIN, β -1,3-GLU-
CANASE AND THAUMATIN-LIKE PROTEIN AND THEIR USE

(57) Abstract: This invention provides isolated and purified nucleotide sequences which are differentially expressed during chestnut infection with the pathogenic fungus *Phytophthora cinnamomi* Rands. The isolated genes can be inserted into expression cassettes and cloned in an expression vector which can be used to transform a host cell by selected transformation methods. Transgenic plants can be regenerated from transformed plant cells by *in vitro* culture techniques. The nucleotide sequences disclosed in this invention encode proteins which are described as having an effective action in plant resistance to pathogenic fungi. When used in sense orientation they can delay or even prevent plant infection, bringing important advantages for chestnut, cork-oak or other woody tree species' producers.

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